



CLEARING THE AIR

2019 APCD Workshop Series

Are you curious about the air you breathe, what's in it, and how it's protected?

Join us at our free monthly workshops and get an in-depth look at how we keep the air clean.

FEBRUARY 18	JULY 15
MARCH 18	AUGUST 19
APRIL 15	SEPTEMBER 16
MAY 20	OCTOBER 21
JUNE 17	NOVEMBER 18

6 p.m-7:30 p.m. | Louisville Free Public Library, 301 York St.

For more info, go to www.louisvilleky.gov/APCD
(502) 574-6000

CLEARING THE AIR

2019 APCD Workshop Series



The [APCD Workshop Series](#) seeks to:

- Increase the community's understanding of Louisville's air and of APCD's many functions
- **EMPOWER** citizens
- Provide a more informal forum for dialogue, Q&A and feedback
- Continue with community engagement efforts

CLEARING THE AIR

2019 APCD Workshop Series



Today's workshop seeks to:


1. Highlight resources found on the APCD website.
2. Help the community better understand how and where to find information/resources on the APCD website.
3. Gain feedback from the community about the APCD website and how it can better address community needs.

CLEARING THE AIR

2019 APCD Workshop Series



Remember...

- There are **NO** silly questions
- Public Participation = 
- Interactive/informal workshop
 - Ask questions as they come to mind
 - Feedback? Email Clearingtheair@louisvilleky.gov



APCD Website Resources

Air Pollution Control District
06/17/2019

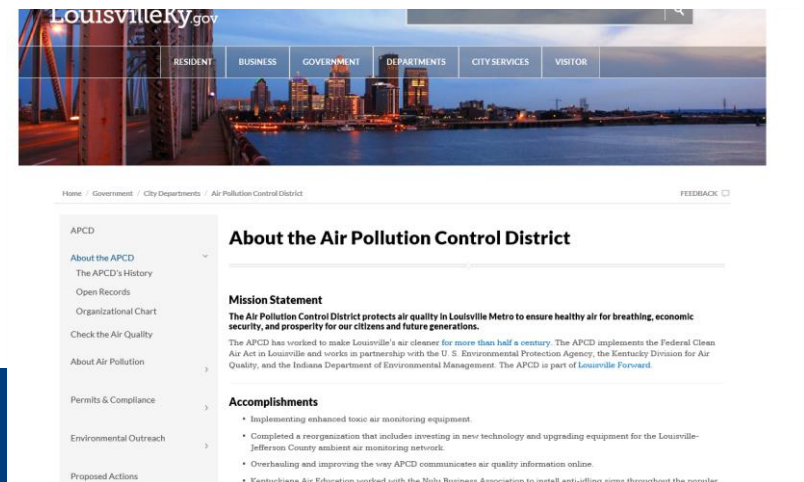


APCD

Air Pollution Control District

Mission Statement:

*The Air Pollution Control District **protects air quality** in Louisville Metro **to ensure healthy air for breathing, economic security, and prosperity** for all Louisvillians.*



Air Pollution Control District

- APCD is delegated authority to implement CAA in Louisville.
- APCD provides solutions for Louisville Metro pollution problems that require special understanding of local industries, geography, housing, and travel patterns, as well as other factors.



AIR POLLUTION
CONTROL DISTRICT

Air Pollution Control District

- To whom do we report?
 - The Community
 - Environmental Protection Agency
 - Ky. Division for Air Quality
 - Air Pollution Control Board
 - Louisville Metro Government
- How are we funded?
 - Federal Grants
 - Permit Fees
 - Emission Fees
 - Program Fees
 - Louisville Metro General Fund

APCD Goals

Ensure healthy air for
breathing

Help local businesses meet
air quality standards

APCD Website

APCD Website

- Provides information about Louisville's air quality (*e.g.* AQI, Louisville Air Watch)
- Informs the public about proposed actions; permits and compliance; Air Pollution Control Board activities
- Access to environmental outreach programs (*e.g.* Clearing the Air Workshop Series, LCCA, GMMML, KAIRE)



APCD Website Data

- Top 5 APCD webpages (January 1-June 16, 2019)
 - APCD homepage
 - Open Burning
 - Louisville Air Watch
 - Clearing the Air Workshop Series
 - APCD Regulations and Laws
- In 2018 the APCD website received over 40,000 views

APCD Website Resources

LOUISVILLE
AIR WATCH

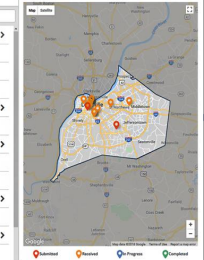
[Click here for real-time air monitoring data](#)



Metro311 Request Portal

Home
Improve your community. Report an issue and watch it get fixed.

- Search...
- Animal or Pesticide Request
- Building Permit Complaint
- Business Concern
- Drainage and Sewer
- Environmental
- Feedback
- Garbage, Recycling, Yard Waste & Junk
- Litter Complaint
- Noise Concern
- Park Issue
- Private
- Property Maintenance Issue
- Smoke Detector Concern



KAIRE
KENTUCKIANA AIR EDUCATION

Air Pollution Control Board

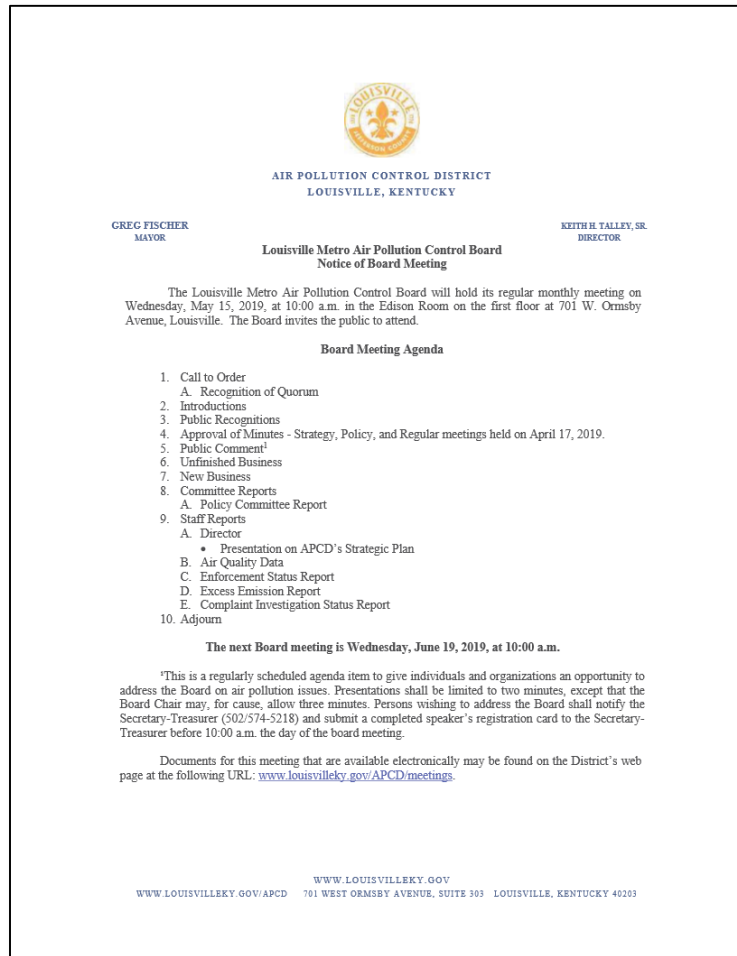
Air Pollution Control Board

“The air pollution control board is hereby declared to be the governing body of an air pollution control district.”

- **Kentucky Revised Statutes (KRS) Chapter 77**
 - Board shall consist of 7 members
 - Unpaid citizens appointed by Mayor to 4 year terms
 - No more than 4 members of the same party
 - Meeting required at least once a month
 - 3rd Wednesday of every month at 10:00 a.m.
 - 701 West Ormsby Avenue, Edison Room



Air Pollution Control Board



- Board meetings are recorded
- Agenda posted online before meeting
- Meeting minutes posted online after every meeting
- Board Orders and Agreements

Air Pollution Control Board

- Reports received
 - Air Quality Report
 - Enforcement Status Report
 - Excess Emissions Report
 - Compliance Investigation Status Report (**NEW!**)

National Ambient Air Quality Standards (NAAQS):

National Ambient Air Quality Standards consist of primary and secondary standards. The primary standards define levels of air quality which EPA judges are necessary, with an adequate margin of safety, to protect the health of the population. The secondary standards are necessary to protect the environment from the adverse effects of the PM_{2.5} the levels of the

Louisville Metro Air Pollution Control District PM_{2.5} Monitoring Report May 2019

This report summarizes PM_{2.5} data collected by Federal Reference Method (FRM) and Federal Equivalent Method (FEM) instruments. Measurements are reported as 24-hour averages in micro-grams per cubic meter (µg/m³). The data are subject to further quality assurance checks and are not final.

PM_{2.5} Monthly Data Summary for April 2019

Site Name	Maximum		Minimum		Sample Recovery	Monthly Average
	Conc.	Date	Conc.	Date		
Firearms Training *	13.9	4/4/19	1.0	4/20/19	NA	8.1
Dursett Lane	15.5	4/6/19	1.9	4/20/19	NA	8.9
Cannons Lane	13.9	4/30/19	1.7	4/20/19	NA	7.7
Watson Lane	15.6	4/6/19	1.1	4/20/19	NA	8.2
Overall	15.6	4/6/19	1.0	4/20/19	NA	8.2

* Firearms Training replaced Southwick on 1/5/2018

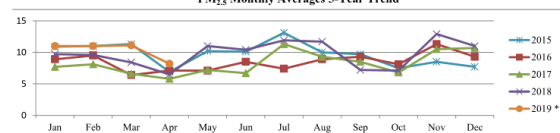
PM_{2.5} Monthly Averages Tracking Table for 2009-2019

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Months ≥ Annual Standard
2009	14.6	11.1	11.3	9.3	10.3	13.9	13.1	12.6	12.1	8.9	13.8	12.9	0
2010	13.3	16.3	12.2	12.2	11.0	14.1	16.0	16.4	11.0	17.0	12.6	13.7	4
2011	15.2	10.6	9.7	8.6	12.1	14.1	19.7	16.2	11.5	9.0	7.6	9.9	3
2012	8.9	9.5	9.2	7.2	11.7	10.9	12.5	11.9	8.6	7.3	13.1	9.6	0
2013*	10.5	10.0	8.5	7.6	8.8	11.6	10.1	12.7	11.9	9.3	7.2	10.7	0
2014	7.5	14.3	11.7	9.6	10.7	14.0	16.4	13.6	9.9	7.9	9.8	12.4	5
2015	10.9	11.0	11.3	6.9	10.2	10.1	13.1	10.0	9.7	7.5	8.5	7.7	1
2016	8.9	9.5	6.4	7.1	7.1	8.5	7.4	8.9	9.3	8.1	11.3	9.3	0
2017	7.7	8.1	6.6	5.8	7.2	6.7	11.3	9.3	8.5	6.8	10.5	10.7	0
2018	9.7	9.6	8.4	6.5	11.0	10.4	11.9	11.7	7.2	7.1	12.9	11.0	1
2019 **	11.0	11.0	11.1	8.2									0
Average	11.3	11.7	11.2	9.4	11.7	13.4	15.5	15.4	12.1	9.8	11.0	11.2	

* The new PM_{2.5} standard of 12 µg/m³ became effective on March 18, 2013

** 2019 Data from continuous FEM Instruments

PM_{2.5} Monthly Averages 5-Year Trend



in long-term exposure to 12 µg/m³. The standard is calculated by averaging the data collected

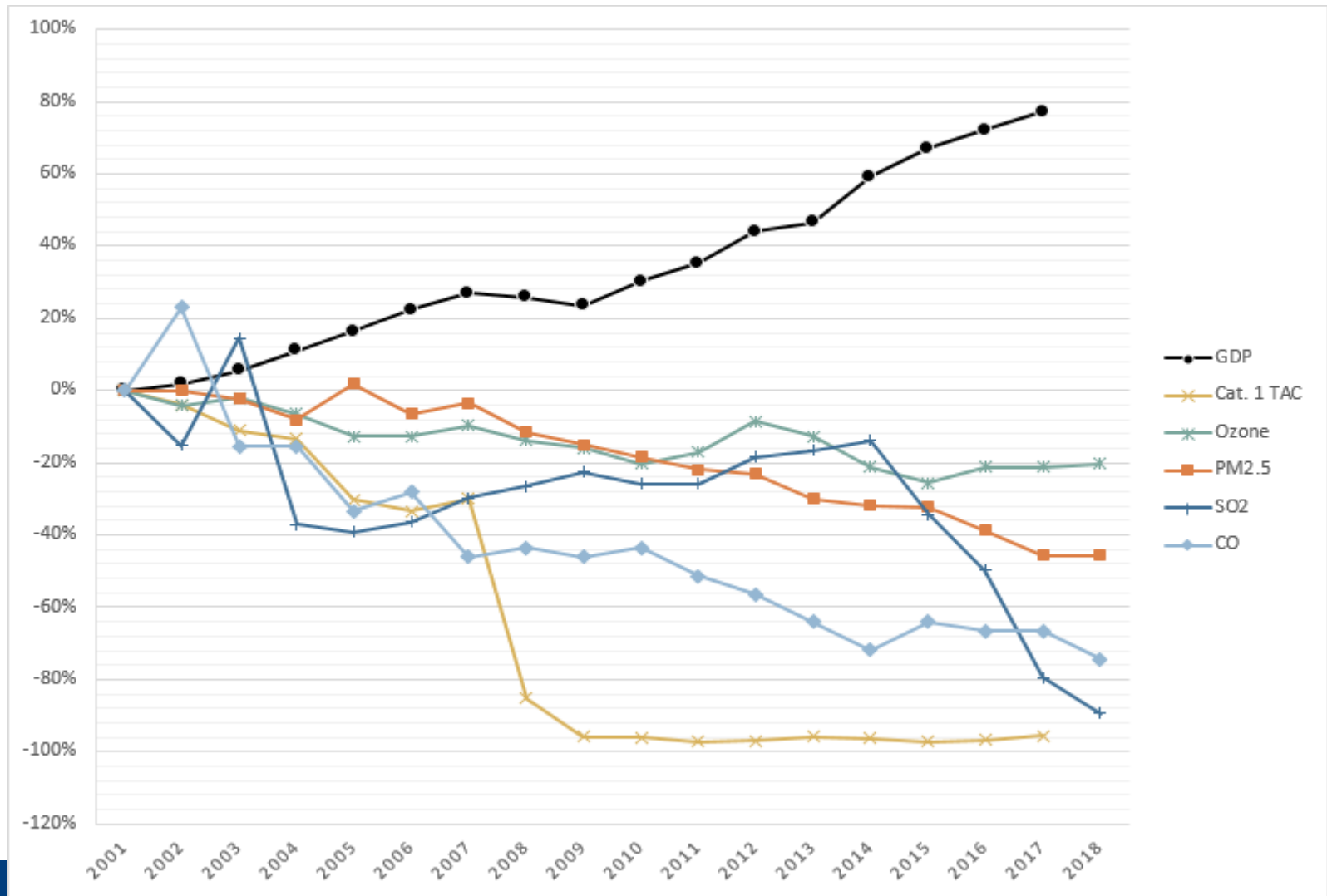
Year	2016-2018	2017-2019
2017	8.7	9.5
2018	9.4	9.9
2019	8.3	8.9
2020	9.0	9.6

in short-term exposure to 12 µg/m³. The design value is the average of the 98th percentile of a year of PM_{2.5} data collected

Year	2016-2018	2017-2019
2017	19.3	20.8
2018	21.4	22.0
2019	19.4	19.8
2020	19.4	20.9

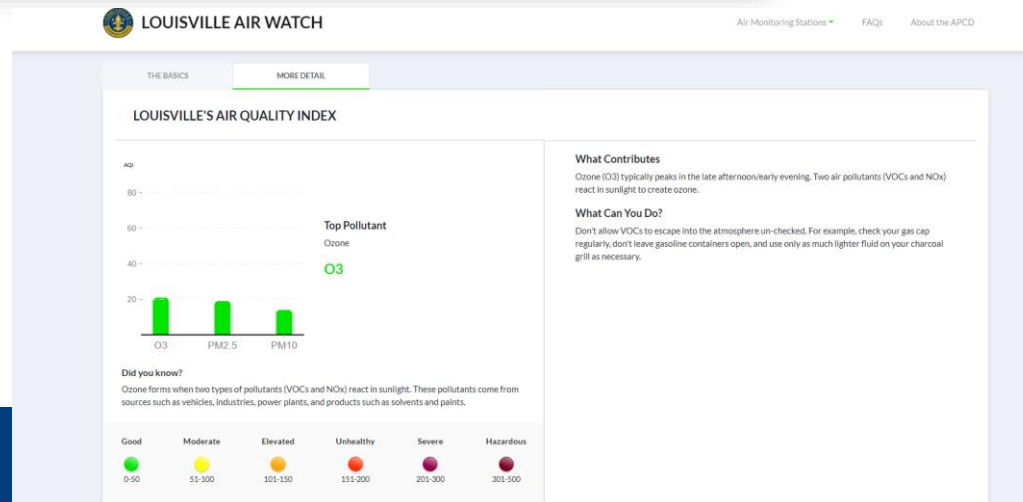
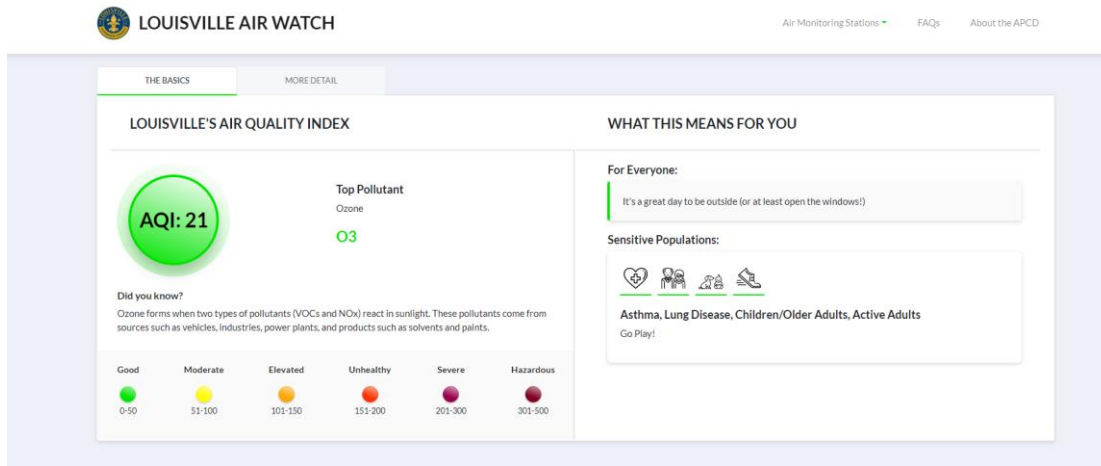
Louisville Air Watch

Air Quality in Louisville



Louisville Air Watch

Provides real-time air quality data from EPA-approved air monitors located throughout Kentuckiana



Air Quality Index (AQI)

- The AQI is calculated for four Criteria Pollutants:
 - Ozone
 - Particle pollution
 - Carbon monoxide
 - Sulfur dioxide
- AQI value of 100 generally corresponds to the NAAQS. **At or below 100 are generally thought of as satisfactory.**

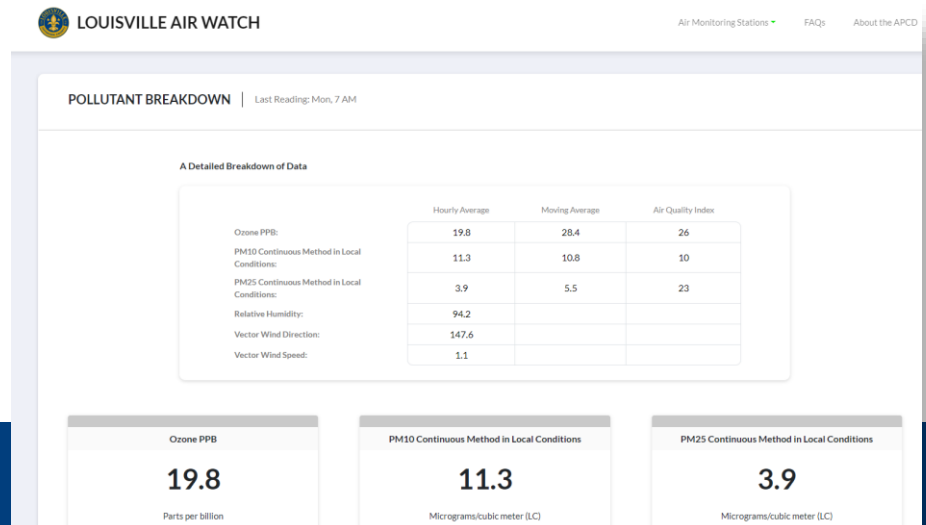


A Guide to the AQI

AQI Values	Actions to Protect Your Health From Ozone
Good (0 - 50)	None
Moderate (51 - 100*)	Unusually sensitive people should consider reducing prolonged or heavy outdoor exertion.
Unhealthy for Sensitive Groups (101 - 150)	The following groups should reduce prolonged or heavy outdoor exertion: <ul style="list-style-type: none">- People with lung disease, such as asthma- Children and older adults- People who are active outdoors
Unhealthy (151 - 200)	The following groups should avoid prolonged or heavy outdoor exertion: <ul style="list-style-type: none">- People with lung disease, such as asthma- Children and older adults- People who are active outdoors Everyone else should limit prolonged outdoor exertion.
Very Unhealthy (201 - 300)	The following groups should avoid all outdoor exertion: <ul style="list-style-type: none">- People with lung disease, such as asthma- Children and older adults- People who are active outdoors Everyone else should limit outdoor exertion.

Louisville Air Watch

- The site will also provide:
 - A look-up function for data from previous days (*e.g.* looking at air quality data from January 3, 2019).
 - Improved layout for obtaining data from individual air monitoring stations.
 - A better way to view and understand data broken down by pollutant.



Reporting Air Pollution Problems

Air Pollution

- Common air pollution problems in Louisville Metro reported to APCD:
 - Odors
 - Dust
 - Smoke
 - Open Burning

APCD

About the APCD >

Check the Air Quality

About Air Pollution >

Permits & Compliance >

Environmental Outreach >

Proposed Actions

Air Pollution Control Board >

Contact APCD

Subscribe & Stay Informed

Report an Air Pollution Problem

If you smell or see something that might be an air pollution problem, you can file a complaint. Here's how:

Contact the APCD

Call (502) 574-6000 between 8 a.m. and 5 p.m. Monday through Friday. You can also [submit a complaint online through Metro Call](#). If you detect a problem outside of regular business hours, report it online or call 311.

Odors

If you smell something that you think might be an air pollution problem, contact the APCD as soon as possible. Help us track the odor by providing the location of the odor when first detected, the date and time it was detected, how long it lasted, and any characteristics, such as "chemical," "flowery," "burnt," "strong," "mild" or "obnoxious," and whether or not it affected your breathing, eyes or throat.

IF AN ODOR IS AFFECTING YOUR HEALTH AND SAFETY, CALL 911 IMMEDIATELY.

Smoke

If you see smoke that is causing a nuisance, creating a breathing problem, or just looks wrong, contact the APCD as soon as possible. Tell us what the smoke looks like: color, density (how

Department:

Air Pollution Control District

Service Category:

Environment & Sustainability
Health & Wellness

LOUISVILLE
METRO311

Chat with us...

Objectionable Odors

An odor will be deemed objectionable when documented investigation by the District includes, as a minimum:

- Observations on the odor's nature, intensity, duration, and location, and
- Evidence that the odor causes injury, detriment, nuisance, or annoyance to persons or to the public

Regulation 1.13: Control of Objectionable Odors in the Ambient Air

Reporting Air Pollution Problems

**IF AN ODOR IS AFFECTING YOUR HEALTH AND SAFETY,
CALL 911 IMMEDIATELY!**

- APCD

- Call
- Email
- Visit



- Metro 311

- Online Portal
- Mobile App
- Chat



Reporting directly to APCD

- Call or Email
 - 502-574-7321 (Direct Line)
 - 502-574-6000 (General Line)
 - air@louisvilleky.gov
- Provide as many details as possible:
 - Location, time, nature, weather, likely source
- Anonymous
 - Callers do not have to disclose their identity

AIR POLLUTION CONTROL DISTRICT

ODOR LOG

INTENSITY SCALE

- 1 Slight: Odor is detectable and can be described by its characteristics or can be distinguished from other odors.
- 2 Moderate: Odor is strong enough to block the other odors, but is not so strong as to make someone try to avoid the odor.
- 3 Strong: A person would take a positive action to attempt to avoid the odor.
- 4 Very Strong: The odor produces physiological effects, such as nausea, difficulty of breathing, irritation of the eyes, nose, throat, or the level at which a residual smell remains after the odor is gone.

REPORT ODORS IMMEDIATELY TO APCD (502) 574-6000

Examples of odor types:

- Sewer
- Chemical
- Garbage
- Paint
- Rubber
- Manure
- Burnt material

Date	Start Time	End Time	Location (address, street intersection, etc.)	Type of Odor	Intensity	Impact on People	Other Observations	Date/Time Reported to APCD

www.louisvilleky.gov/APCD

ODOR

Sometimes, a city is a smelly place. Odors are part of life in a major metropolitan area. But when a smell becomes unbearable, the Air Pollution Control District will try to help.

1. If you believe an odor is affecting your health and safety, call 911 immediately.
2. Otherwise, contact APCD to report an offensive odor. Use the phone number or email below.
3. Help us track the odor. Tell us where and when you noticed it, and how long it lasted.
4. Note characteristics like "strong," "sewer-like," "chemical," "burnt," "flowery," etc.
5. Write down your observations, if possible.

APCD investigators will check out your complaint and, if warranted, can cite violators who fail to address the problem.

(502) 574-7321
air@louisvilleky.gov

AIR POLLUTION CONTROL DISTRICT

Reporting through Metro311

Online Portal

Metro311 Request Portal

Home

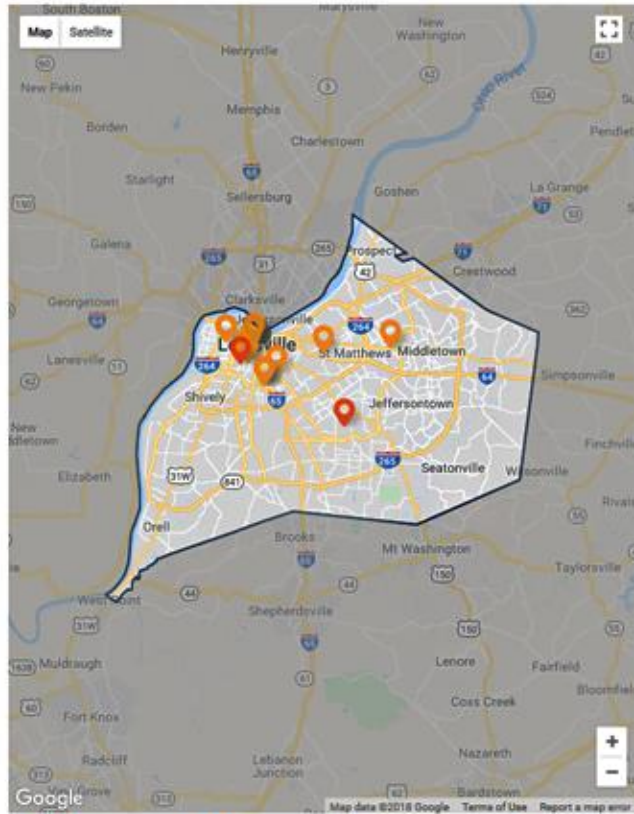
Improve your community. Report an issue and watch it get fixed.

Search...

- Animal or Pest Issue Request
- Building Permit Complaint
- Business Concern
- Drainage and Sewer
- Environmental
- Feedback
- Garbage, Recycling, Yard Waste & Junk
- Litter Complaint
- Noise Concern
- Park Issue
- Pothole
- Property Maintenance Issue
- Smoke Detector Concern

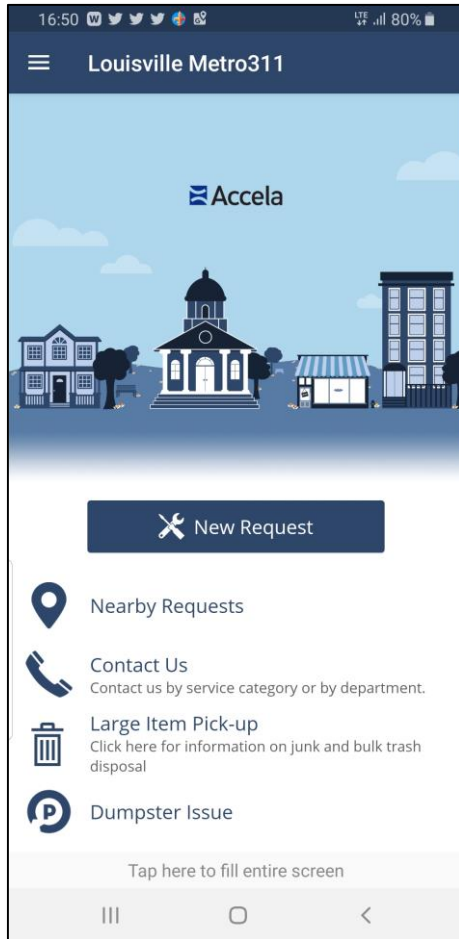
Map List

Keyword

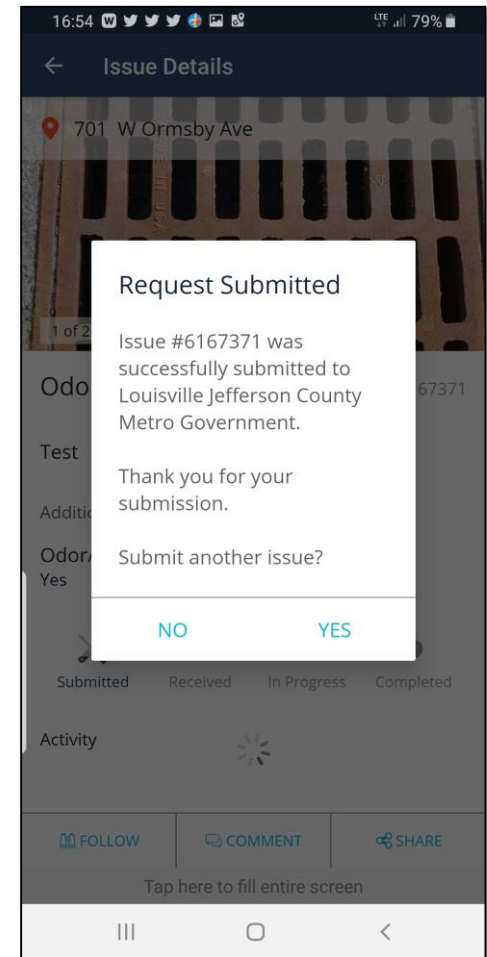


Submitted Received In Progress Completed

Using the Metro311 Mobile App



- On-the-go reporting
 - Provides a method for reporting complaint on the spot (real-time)
- Mirrors the online portal
 - Continuity; tracks complaints
 - Check status of submitted complaints



Environmental Outreach

Environmental Outreach

- Improves communication between the community and APCD
 - Better awareness of community concerns
 - Increases understanding of APCD's many functions as a regulator
 - Provides educational programs/resources to reduce air quality impacts
- Allows APCD to provide an **accurate** picture of current air quality, including **challenges *and* successes**, building support for future air quality improvement strategies



Grow More Mow Less

- Seeks to reduce lawn-related air pollution in Louisville Metro; encourages a switch to low-mow landscaping

APCD

About the APCD >

Check the Air Quality

About Air Pollution >

Permits & Compliance >

Environmental Outreach ✓

Kentuckiana Air Education

[Grow More Mow Less](#)

Lawn Care for Cleaner Air

Stakeholder Involvement

Clearing The Air Workshops

Drive Clean Louisville

Proposed Actions


Grow More Mow Less

There's turfgrass we use and turfgrass we don't use. All of it has to be mowed. And that affects our air quality. The average gas-powered push mower produces 14.76 pounds of air pollution in an hour. That's enough polluting gas to surround you in a big bubble. Electric mowers are much cleaner, but the cleanest way of all is not to mow in the first place.


So if your turfgrass is using you more than you use it, you might think about replacing it with something you don't have to mow. Low-mow landscaping can save you time, money, and hassle — and make our air cleaner — all at the same time.

There are lots of options to choose from: trees, shrubs, flowers, ground cover, edible plants, and even low-mow grasses. Whether you want to mow once in a while or never again, these plants can help you displace turfgrass and save mowing time.


Now is a great time to grow more and mow less!




[Facebook](#)



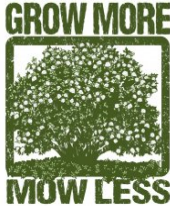
[Great Low-Mow Plants](#)



[Convert Turfgrass to Low-Mow](#)



[Lawn Equipment Rebates](#)





Lawn Care for Cleaner Air

- Encourages the replacement of gas-powered lawn equipment with cleaner electric/human-powered lawn equipment
- Louisville Metro residents receive rebates



Residential Equipment

(1/3 acre or less)



Professional Equipment

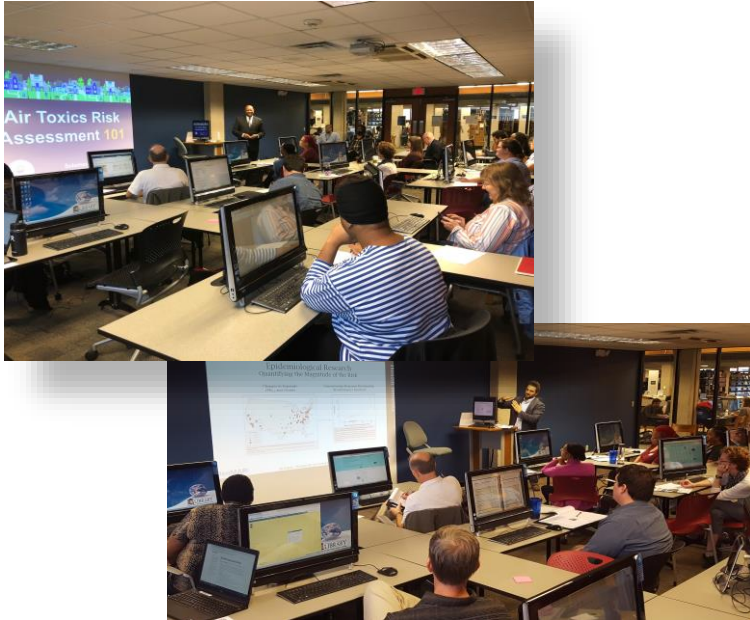
(1/3 acre or more)

KAIRE



- Kentuckiana Air Education (KAIRE)
 - Increases awareness of the impact individual choices have on local air quality
 - Idle Free Program ([businesses](#), [schools](#), neighborhoods)
 - Encourages behavioral changes

Clearing the Air Workshop Series



- Provides info on APCD, air quality and other topics
- Free and open to the public

CLEARING THE AIR 2019 APCD Workshop Series



Are you curious about the air you breathe, what's in it, and how it's protected?

Join us at our free monthly workshops to get an in-depth look at how we keep the air clean.

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(502) 574-6000

Improving the Website

*What other information
would the community like
to see on the website?*

*Is the website
user friendly?*

*Are the resources
online helpful?*

*Does the website
content address
community needs?*

Questions?

Louisville Metro Air Pollution Control District

701 W. Ormsby Ave.
Ste. 303
Louisville, Ky. 40203

(502) 574-6000

www.louisvilleky.gov/APCD

Keith H. Talley Sr., Director

Resources

Air Pollution Control District

[Louisvilleky.gov/APCD](https://louisvilleky.gov/APCD)

KAIRE

[Helptheair.org](https://helptheair.org)

[Facebook.com/helptheair](https://facebook.com/helptheair)

[Twitter.com/helptheair](https://twitter.com/helptheair)

Lawn Care for Cleaner Air

[Louisvilleky.gov/government/lawn-care-cleaner-air](https://louisvilleky.gov/government/lawn-care-cleaner-air)

Grow More Mow Less

<https://louisvilleky.gov/government/air-pollution-control-district/grow-more-mow-less>

[Facebook.com/GrowMoreMowLess](https://facebook.com/GrowMoreMowLess)

Louisville Air Watch

<https://airqualitymap.louisvilleky.gov/>

Air Pollution Control Board

<https://louisvilleky.gov/government/air-pollution-control-district/air-pollution-control-board>

Resources

Metro311

<https://louisvilleky.gov/government/metro311>

General APCD Documents

<https://louisvilleky.gov/government/air-pollution-control-district/general-apcd-documents>